

FEI | Faith Engineering, Inc.

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May 22, 2001

Mr. Nolan Bennett  
Environmental Health Scientist  
Bernalillo County Environmental Health Department  
600 Second St. NW, Suite 500  
Albuquerque, NM 87102

Sent via E-Mail: [nbennett@bernco.gov](mailto:nbennett@bernco.gov) and US Mail

RE: Transmittal of 3<sup>rd</sup> Quarterly Ground Water Sampling Results  
3031 Isleta SW, The Lee & Blakely Site; NMED/USTB Facility ID No. 11475001/29071  
Contract Control No. 980473  
FEI Project No. 98-01-1175-05

Dear Nolan:

Please find included herewith the report for the third quarter of ground water sampling and analysis for the subject site. Sampling was conducted on April 20, 2001.

As you are aware, Faith Engineering, Inc. and their subcontractor Tecumseh Professional Associates (FEI/TPA) are preparing a work plan for remedial design at this site.

During this third quarterly ground water monitoring and sampling activity, all ground water monitoring wells were sampled and submitted to Pinnacle Laboratories for analysis by EPA Method 8260. Naphthalene concentrations above the NMWQCC standard of 30 µg/l were found in two monitor wells, MW-1 (33 µg/l) and MW-3 (110 µg/l). Benzene concentrations above the NMWQCC standard of 10 µg/l were detected in MW-1 (580 µg/l) and MW-7 (67 µg/l). Laboratory results obtained during this third quarter sampling event indicate hydrocarbon concentrations have decreased in MW-1, MW-2, MW-3, and MW-7 since the initial sampling conducted during the Site Investigation. Results of the next quarter of ground water monitoring will be provided by 8/15/01.

Please do not hesitate to contact the undersigned if you have any questions or comments regarding this matter.

Respectfully submitted,

FAITH ENGINEERING, INC.

Stuart E. Faith, P.E., C.S. #080  
President

cc. w/ encls. Mr. Tom Leck – NMED/USTB  
Mr. Bill Brown - TPA

FEI FILE NUMBER 98-01-1175-05

**THIRD QUARTERLY SAMPLING REPORT**

**LEE & BLAKELY FEEDSTORE**

**3031 ISLETA BLVD. SW**

**ALBUQUERQUE, NEW MEXICO**

**FACILITY #11475001/29071**

PREPARED BY:

**STUART FAITH, P.E.**

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**TECUMSEH PROFESSIONAL ASSOCIATES, INC.**

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MAY 22, 2001

PREPARED FOR:

**THE BERNALILLO COUNTY ENVIRONMENTAL HEALTH DEPARTMENT**

**AND**

**THE NEW MEXICO ENVIRONMENT DEPARTMENT**

**UNDERGROUND STORAGE TANK BUREAU**

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**COVER PAGE  
FORM 1216  
QUARTERLY MONITORING REPORT**

Please include the following information:

1. Site name: Lee & Blakely
2. Responsible party: Mr. Nolan Bennett
3. Responsible party mailing address (list contact person if different):  
Bernalillo County Environmental Health Dept.  
600 2<sup>nd</sup> Street NW, Suite 500  
Albuquerque, NM 87102
4. Facility number: 11475001/29071
5. Address/legal description: 3031 Isleta Blvd. SW  
Albuquerque, NM
6. Author/consulting company: Faith Engineering, Inc.
7. Date of report: 05/22/2001
8. Date of confirmation of release or date USTB was notified of the release:  
March, 1998

**STATEMENT OF FAMILIARITY**

I, the undersigned, am personally familiar with the information submitted in this report and the attached documents and attest that it is true and complete.

**Signature:**\_\_\_\_\_

**Name:**\_\_\_\_\_ **Stuart Faith**

**Affiliation:**\_\_\_\_\_ **Faith Engineering, Inc.**

**Title:**\_\_\_\_\_ **President**

**Certified Scientist #:**\_\_\_\_\_ **080**

**Date:**\_\_\_\_\_

## **I. INTRODUCTION:**

### **I. A. Scope of Work**

Faith Engineering, Inc. (FEI), in collaboration with Tecumseh Professional Associates, Inc. (TPA), has been retained by the Bernalillo County Environmental Health Department to provide professional environmental services at the Lee & Blakely site, 3031 Isleta SW, Albuquerque, New Mexico (the Site). The location of the Site is shown on Figure 1. This report documents the third quarter of ground water sampling conducted at the site on April 20, 2001. The period covered in this report is from February to April 2001.

### **I. B. This quarter's highlights**

This sampling event represents the third quarter of ground water quality re-examination as outlined in the work plan approval letter dated November 17, 2000. The sampling event provides the sample results with field testing of all 8 ground water monitoring wells.

## **II. ACTIVITIES PERFORMED DURING THIS QUARTER:**

### **II. A. Brief description of the remediation system and date installed**

There is no remediation system installed at this Site.

### **II. B. Description of activities performed to keep system operating properly**

Not Applicable, See II. A.

### **II. C. Monitoring activities performed**

Ground water monitoring and sampling at the Site during this quarter took place on April 20, 2001. This quarter's sampling included the following:

- ground water elevation measurements in all wells.
- ground water sampling of monitor wells MW-1, MW-1D, MW-2, MW-3, MW-4, MW-5, MW-6 and MW-7.
- laboratory analysis of ground water samples for Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX), Methyl-t-Butyl Ether (MTBE), TMB, Ethylene Dibromide (EDB), Ethylene Dichloride (EDC), and Naphthalene by EPA Method 8260.
- field testing for natural attenuation indicators of ground water samples, including Iron, Phosphate, Sulfide, Alkalinity, pH, dissolved oxygen, conductivity, temperature and nitrate.

The locations of all monitor wells are shown on Figure 1. Monitoring and sampling procedures are described in Appendix 1. Table 4 provides a historical summary of field activities at the site and

Appendix 2 contains this quarter's original Field Activity Logs. The laboratory results of the ground water analyses for the current monitoring period are shown on Table 1. Historic sampling results are shown on Table 2. Laboratory reports and the Chain of Custody Form are provided in Appendix 3.

Naphthalene concentrations above the NMWQCC standard of 30 µg/l were found in two monitor wells, MW-1 (33 µg/l) and MW-3 (110 µg/l). Benzene concentrations above the NMWQCC standard of 10 µg/l were detected in MW-1 (580 µg/l) and MW-7 (67 µg/l).

Depth to ground water varied from 5.65 feet below ground surface (bgs) in MW-5 to 6.33 feet bgs in MW-1. All ground water elevation data including the historical data is summarized in Table 3. This quarter's measurements of ground water elevations indicate a slightly defined ground water directional flow in a southwesterly orientation. A water level summary map for the third quarter ground water measurements is shown on Figure 2.

#### **II. D. System performance and effectiveness**

Not Applicable, See II. A.

#### **II. E. Statement verifying containment of release**

Based on ground water sample results from site perimeter monitor wells, and a comparison with the previous sampling results, indications are that ground water contaminants appear to presently be contained on-site. Please refer to Figure 2. However, future on-site containment of contamination can not be guaranteed, particularly to the south of MW-7.



### **III. SUMMARY AND CONCLUSIONS:**

#### **III. A. Discussion of trends or changes noted in analytical results or site conditions**

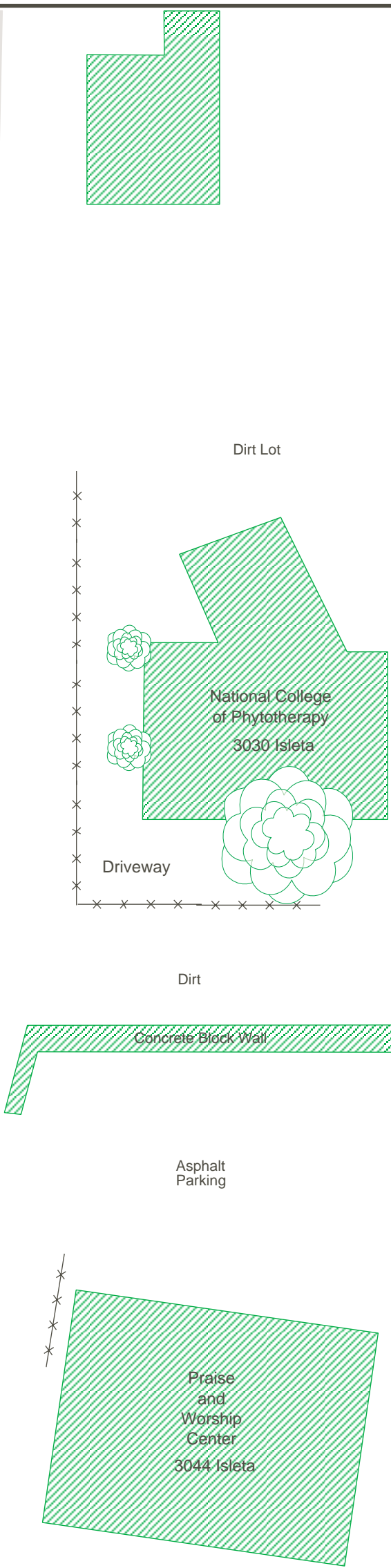
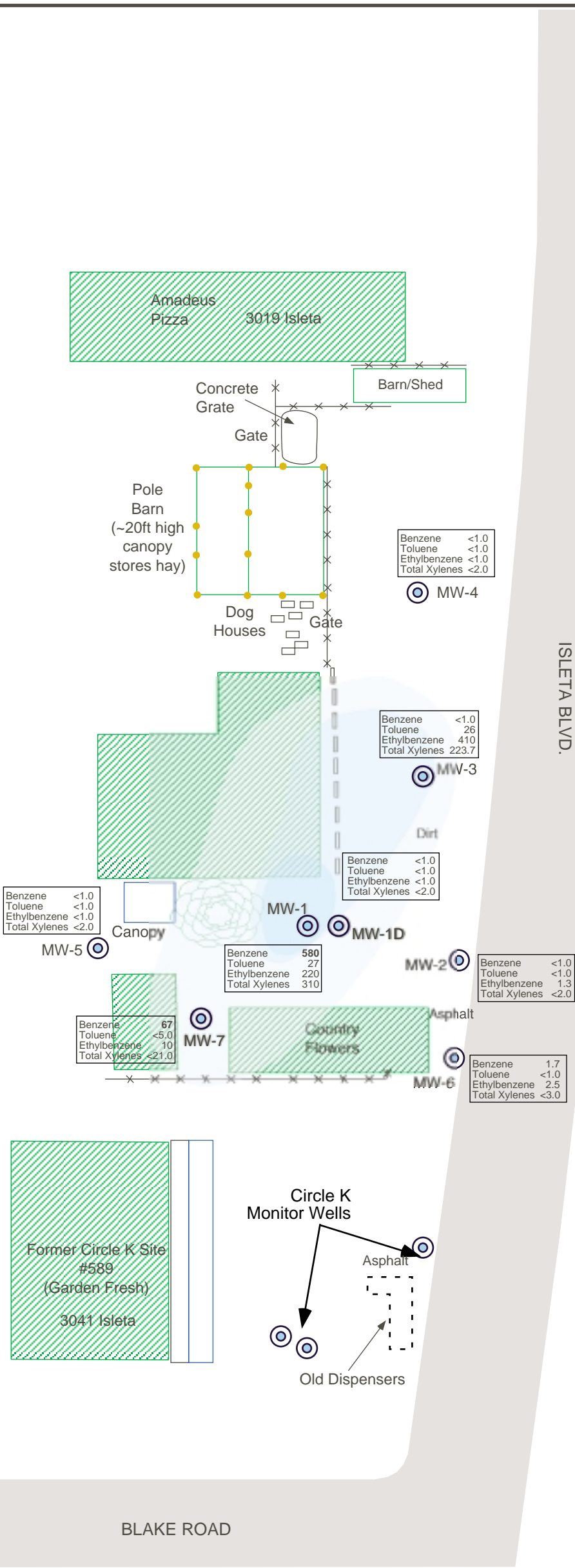
There has not been enough sampling conducted at the site to establish definite trends. However, laboratory results obtained during this third quarter sampling event indicate hydrocarbon concentrations have decreased in MW-1, MW-2, MW-3, and MW-7 since the initial sampling conducted during the Site Investigation on 2/22/99 and 6/10/99.

#### **III. B. Ongoing assessment of the remediation system**

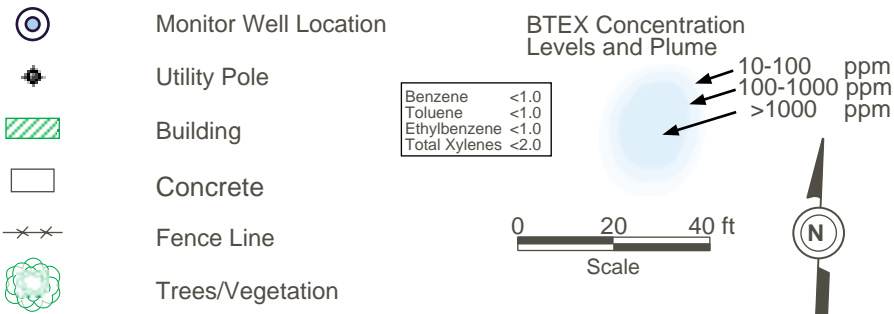
Not Applicable, See II. A.

#### **III. C. Recommendations**

FEI recommends continuing site monitoring and sampling pursuant to the existing work plan approved on 11/17/00, as amended to change the report submission dates. A new work plan will be submitted shortly for conceptual remediation design at the site. The next quarterly sampling report will be submitted by 8/15/01, pursuant to the report submission date extension approval granted by the NMED/USTB on 1/30/01.



## LEGEND



## LEE & BLAKELY DISCOUNT FEED STORE

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**TECUMSEH**  
PROFESSIONAL ASSOCIATES, INC.

Subject: Site Map and BTEX Concentration Levels

Drawn by: KGF/WJB

Client: BCEHD

Date : May 2001

Figure: 1

Project: 99-01-1175

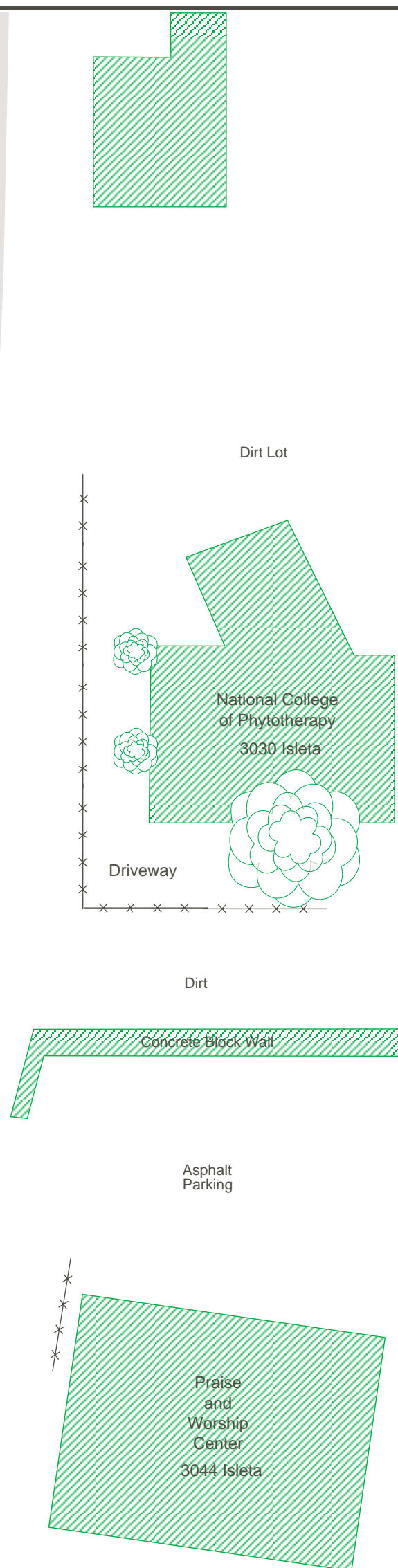
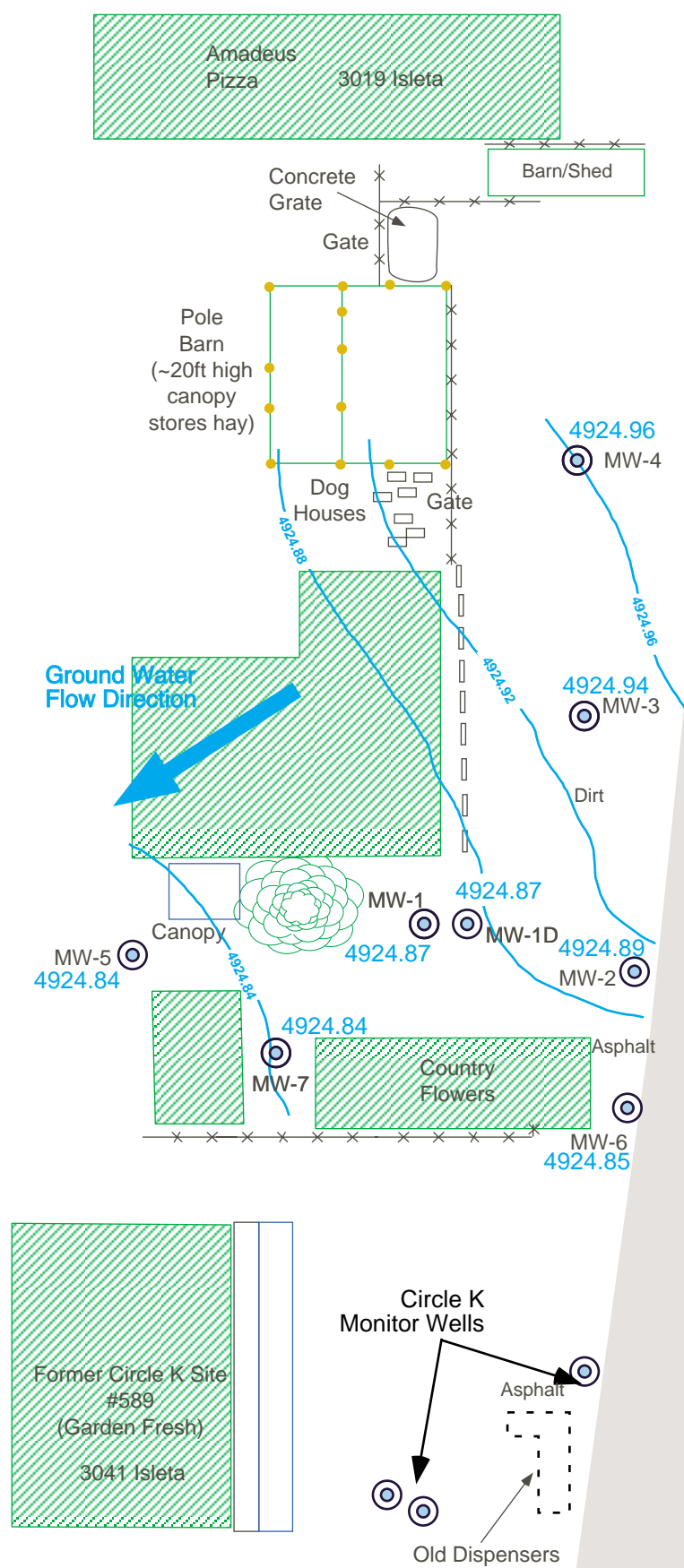


Figure: 2	Project: 99-01-1175
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**TABLE 1**  
**Lee Blakely 3031 Isleta**  
**00-01-1175-05 • NMED FACILITY #11475001**  
**CURRENT GROUND WATER ANALYSIS RESULTS**

		ORGANICS									INORGANICS						INDICATORS		
LOCATION	DATE SAMPLED	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	TMB	NAPHTHALENE	IRON	PHOSPHATE	SULFIDE	ALKALINITY as CaCO <sub>3</sub>	DISS O2	NITRATE	pH	CONDUCTIVITY	TEMP
UNITS STANDARDS		µg/l 10	µg/l 750	µg/l 750	µg/l 620	µg/l 100	µg/l 0.1	ug/l 10	µg/l	µg/l 30	µg/l TOTAL	mg/l	mg/l	mg/l	mg/l	mg/l		µmhos/cm	°C
MW-1	4/20/01	580	27	220	310	< 10	< 10	< 10	43	33	0.4	3.0	0.3	250	0.0	1.0	6.86	931	17.8
MW-1D	4/20/01	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	1.0	3.0	6.5	150	0.0	1.0	6.85	760	17.8
MW-2	4/20/01	< 1.0	< 1.0	1.3	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	0.6	5.0	6.0	225	0.5	0.6	6.91	861	17.9
MW-3	4/20/01	< 1.0	26	410	223.7	< 1.0	< 1.0	< 1.0	33.2	110	0.2	3.0	10.0	200	0.0	1.0	6.83	760	17.8
MW-4	4/20/01	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	0.6	5.0	0.0	175	0.5	1.5	6.73	752	17.5
MW-5	4/20/01	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	5.0	3.0	9.0	150	0.5	0.2	6.82	909	17.0
MW-6	4/20/01	1.7	< 1.0	2.5	< 3.0	< 1.0	< 1.0	< 1.0	< 2.0	1.0	0.3	2.0	8.0	200	0.5	1.0	6.87	845	17.7
MW-7	4/20/01	67	< 5.0	10	< 21.0	< 5.0	< 5.0	< 5.0	< 12.9	18	0.2	4.0	9.0	200	0.0	0.4	6.88	949	16.5
TRIP BLANK	4/19/01	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0									

**Bold** - Above Action Limits

Data checked \_\_\_\_\_ / \_\_\_\_\_

**TABLE 2**  
**Lee Blakely 3031 Isleta**  
**00-01-1175-05 • NMED FACILITY #11475001**  
**HISTORY OF GROUND WATER TESTING**

		ORGANICS											INORGANICS						INDICATORS				
LOCATION	DATE SAMPLED	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	MTBE	EDB	EDC	TMB	NAPHTHALENE	2-METHYL NAPHTHALENE	1-METHYL NAPHTHALENE	IRON	PHOSPHATE	SULFIDE	ALKALINITY as CaCO <sub>3</sub>	DISS O2	NITRATE	pH	CONDUCTIVITY	TEMP		
UNITS STANDARDS		µg/l 10	µg/l 750	µg/l 750	µg/l 620	µg/l 100	µg/l 0.1	ug/l 10	µg/l	µg/l	µg/l	µg/l	µg/l		mg/l	mg/l	mg/l	mg/l	mg/l		µmhos/cm	°C	
		TOTAL: 30											SOLUBLE	TOTAL									
MW - 1	2/21/95	1400	40	470	1518	< 10	< 0.01	< 10	*	55.6	*	*	*	*	*	*	*	*	*	*	*	*	
	9/12/96	540	30	310	542	< 10	< 10	< 10	54	150	*	*	0.6	1.0	1.5	0.1	300	1.0	0.1	7.3	971	26.5	
	1/24/01	600	20	210	< 400	< 10	< 10	< 10	46	47	< 50	< 50	0.8	1.0	0.2	1.0	200	0.0	1.0	6.97	904	14.2	
	4/20/01	580	27	220	310	< 10	< 10	< 10	43	33	*	*	*	0.4	3.0	0.3	250	0.0	1.0	6.86	931	17.8	
MW - 1D	6/9/95	2.0	9.6	100	77.2	< 1.0	< 0.01	< 1.0	20.2	33	*	*	*	*	*	*	*	*	*	*	*	*	
	9/12/96	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	*	*	0.6	0.6	0.4	0.0	200	1.0	0.3	7.3	789	24.0	
	1/24/01	1.4	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	0.4	0.6	0.1	0.0	165	0.0	0.4	7.03	744	16.2	
	4/20/01	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	*	*	*	1.0	3.0	6.5	150	0.0	1.0	6.85	760	17.8	
MW - 2	2/21/95	16	< 1.0	3.2	4.1	< 1.0	< 1.0	< 1.0	*	< 0.1	*	*	*	*	*	*	*	*	*	*	*	*	
	9/12/96	44	< 1.0	1.5	<43	< 1.0	< 1.0	< 1.0	< 2.0	1.6	*	*	0.4	0.4	2.5	0.0	275	0.5	0.2	7.1	749	27.0	
	1/23/97	27	< 1.0	< 1.0	< 81	< 1.0	< 1.0	< 1.0	17.3	4.3	< 5.0	< 5.0	0.6	0.8	2.0	0.0	250	0.0	0.2	7.04	846	14.3	
	4/20/01	< 1.0	< 1.0	1.3	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	*	*	*	0.6	5.0	6.0	225	0.5	0.6	6.91	861	17.9	
MW - 3	2/21/95	6.1	58	750	1107	< 2.0	< 2.0	< 2.0	*	< 0.1	*	*	*	*	*	*	*	*	*	*	*	*	
	9/12/96	< 10	35	450	<310	< 10	< 10	< 10	< 2.00	200	*	*	0.1	0.1	1.5	0.3	290	0.5	0.1	6.9	940	27.2	
	1/23/97	< 5.0	39	500	< 285	< 5.0	< 5.0	< 5.0	36.2	140	54	43	0.2	0.4	3.0	0.8	185	0.0	0.6	6.81	919	15.0	
	4/20/01	< 1.0	26	410	223.7	< 1.0	< 1.0	< 1.0	33.2	110	*	*	*	0.2	3.0	10.0	200	0.0	1.0	6.83	760	17.8	
MW - 4	2/21/95	< 1.0	< 1.0	3	4.3	< 1.0	< 1.0	< 1.0	*	0.3	*	*	*	*	*	*	*	*	*	*	*	*	
	9/12/96	< 1.0	< 1.0	1.6	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	*	*	0.3	0.4	1.5	0.0	225	1.0	0.1	7.0	818	27.1	
	1/23/97	< 1.0	< 1.0	1.3	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	0.3	1.0	0.8	0.0	200	0.5	1.0	6.70	857	15.0	
	4/20/01	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	*	*	*	0.6	5.0	0.0	175	0.5	1.5	6.73	752	17.5	

**TABLE 2**  
**Lee Blakely 3031 Isleta**  
**00-01-1175-05 • NMED FACILITY #11475001**  
**HISTORY OF GROUND WATER TESTING**

		ORGANICS											INORGANICS						INDICATORS			
LOCATION	DATE SAMPLED	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	MTBE	EDB	EDC	TMB	NAPHTHALENE	2-METHYL NAPHTHALENE	1-METHYL NAPHTHALENE	IRON	PHOSPHATE	SULFIDE	ALKALINITY as CaCO <sub>3</sub>	DISS O2	NITRATE	pH	CONDUCTIVITY	TEMP	
UNITS STANDARDS		µg/l 10	µg/l 750	µg/l 750	µg/l 620	µg/l 100	µg/l 0.1	ug/l 10	µg/l	µg/l	µg/l	µg/l	µg/l		mg/l	mg/l	mg/l	mg/l	mg/l		µmhos/cm	°C
MW - 5	6/9/95	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 0.01	< 1.0	< 2.0	< 1.0	*	*	*	*	*	*	*	*	*	*	*	*
	9/12/96	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	*	*	2.0	6.0	4.0	0.0	275	0.5	0.4	6.7	1196	22.7
	1/23/97	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	0.6	2.0	1.0	0.3	295	0.5	0.4	6.86	1102	12.8
	4/20/01	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	*	*	*	5.0	3.0	9.0	150	0.5	0.2	6.82	909	17.0
MW - 6	6/9/95	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 0.01	< 1.0	< 2.0	< 1.0	*	*	*	*	*	*	*	*	*	*	*	*
	9/12/96	1.5	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	<1.0	*	*	0.4	0.6	3.0	0.0	225	0.5	0.3	6.8	808	26.3
	1/23/97	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	0.2	0.3	1.0	0.0	250	1.0	1.0	6.94	920	13.4
	4/20/01	1.7	< 1.0	2.5	< 3.0	< 1.0	< 1.0	< 1.0	< 2.0	1.0	*	*	*	0.3	2.0	8.0	200	0.5	1.0	6.87	845	17.7
MW - 7	6/9/95	270	3.3	17	160	< 1.0	< 0.01	< 1.0	8.4	81	*	*	*	*	*	*	*	*	*	*	*	*
	9/12/96	90	1.1	12	<7.1	< 1.0	< 1.0	< 1.0	< 2.0	33	*	*	0.1	0.2	1.0	0.0	275	0.5	0.2	7.2	948	24.3
	1/23/97	87	2.0	6.8	< 7.2	< 1.0	< 1.0	< 1.0	< 2.0	24	8.2	5.0	0.2	1.0	0.8	0.2	275	0.5	1.0	7.02	934	14.1
	4/20/01	67	< 5.0	10	< 21.0	< 5.0	< 5.0	< 5.0	< 12.9	18	*	*	*	0.2	4.0	9.0	200	0.0	0.4	6.88	949	16.5

\* - Not Sampled/Not Tested

**Bold** - Above Action Limits

Data checked \_\_\_\_ / \_\_\_\_

**TABLE 3**  
**Lee Blakely 3031 Isleta**  
**00-01-1175-05 • NMED FACILITY #11475001**  
SUMMARY OF GROUNDWATER ELEVATION MEASUREMENTS

WELL NUMBER	ELEVATION (feet above datum)	DATE	TOTAL DEPTH	STATIC (feet BG)	WATER LEVEL (feet AD)	(+) = RISING (-) = FALLING
<b>MW-1</b>	4931.20	2/22/99	12.48	6.84	4924.36	
		9/3/99		6.26	4924.94	0.58
		9/13/00		6.50	4924.70	-0.24
		1/24/01		6.52	4924.68	-0.02
		4/20/01		6.33	4924.87	0.19
<b>MW-1D</b>	4931.05	6/11/99	17.46	6.35	4924.70	
		9/3/99		6.11	4924.94	0.24
		9/13/00		6.34	4924.71	-0.23
		1/24/01		6.38	4924.67	-0.04
		4/20/01		6.18	4924.87	0.20
<b>MW-2</b>	4931.21	2/22/99	12.65	6.84	4924.37	
		9/3/99		6.25	4924.96	0.59
		9/13/00		6.46	4924.75	-0.21
		1/24/01		6.51	4924.70	-0.05
		4/20/01		6.32	4924.89	0.19
<b>MW-3</b>	4930.77	2/22/99	12.18	6.35	4924.42	
		9/3/99		5.78	4924.99	0.57
		9/13/00		6.00	4924.77	-0.22
		1/24/01		6.05	4924.72	-0.05
		4/20/01		5.83	4924.94	0.22
<b>MW-4</b>	4930.97	2/22/99	12.78	6.51	4924.46	
		9/3/99		5.95	4925.02	0.56
		9/13/00		6.17	4924.80	-0.22
		1/24/01		6.23	4924.74	-0.06
		4/20/01		6.01	4924.96	0.22
<b>MW-5</b>	4930.49	6/11/99	11.88	5.94	4924.55	
		9/3/99		5.69	4924.80	0.25
		9/13/00		5.87	4924.62	-0.18
		1/24/01		5.86	4924.63	0.01
		4/20/01		5.65	4924.84	0.21

**TABLE 3**  
**Lee Blakely 3031 Isleta**  
**00-01-1175-05 • NMED FACILITY #11475001**  
SUMMARY OF GROUNDWATER ELEVATION MEASUREMENTS

WELL NUMBER	ELEVATION (feet above datum)	DATE	TOTAL DEPTH	STATIC (feet BG)	WATER LEVEL (feet AD)	(+) = RISING (-) = FALLING
MW-6	4930.97	6/11/99	12.15	6.26	4924.71	
		9/3/99		6.04	4924.93	0.22
		9/13/00		6.25	4924.72	-0.21
		1/24/01		6.32	4924.65	-0.07
		4/20/01		6.12	4924.85	0.20
MW-7	4930.78	6/11/99	11.44	6.00	4924.78	
		9/3/99		5.89	4924.89	0.11
		9/13/00		6.14	4924.64	-0.25
		1/24/01		6.14	4924.64	0.00
		4/20/01		5.94	4924.84	0.20

Data checked \_\_\_\_\_ / \_\_\_\_\_



**Table 4**  
**Lee Blakely 3031 Isleta**  
**00-01-1175-05 • NMED Facility # 11475001**  
 Summary of Tasks Performed in the Field

DATE	FIELD TECH.	DESCRIPTION
2/11/99 - 2/12/99	BB	Drilling and Soil Borings Taken.
2/22/99	KGF	Sampling of MW-1, MW-2, MW-3 and MW-4. Obtained GW levels.
5/27/99	BB	Further Drilling and Soil Borings Taken.
6/10/99	KGF	Samling of MW-5, MW-6, MW-7, MW-1D(new).
7/23/99	CB, CF	Headspace sampling.
8/6/99	KGF, BC	Took Boring Samples for Soil Physical Properties.
9/3/99	KGF	Obtained all GW levels.
6/11/00	KGF	Obtained GW levels on new wells.
9/13/00	KGF, MB	Initial sampling round(1st Qtr)-all existing wells, site survey.
1/24/01	KGF, MB	2nd Quarterly sampling round, all wells.
4/20/01	KGF, MB	3rd Quarterly sampling round, all wells.

Data checked \_\_\_\_\_ / \_\_\_\_\_

## **APPENDIX 1**

### **Sampling Protocol**

Prior to any sampling, well development or purging, all monitor wells were sounded for depth to ground water. FEI used an electronic sounder with an accuracy of  $\pm 0.01$ /foot. Ground water elevations (from datum) were determined using survey data collected during the Hydrogeologic Investigation.

Prior to any sampling event, a minimum of three (3) well bore volumes were purged from each well using a Grundfos Sampling Pump. Samples were collected in HCl preserved VOAs and placed on ice in a container for delivery to Pinnacle Laboratories, in Albuquerque, New Mexico, for analyses. The ground water samples were analyzed for Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX), Naphthalene, Methyl-t-Butyl Ether (MTBE), TMB, Ethylene Dibromide (EDB) and Ethylene Dichloride (EDC) by EPA Method 8260. Natural attenuation indicator parameters Iron, Phosphate, Sulfide, Alkalinity, pH, dissolved oxygen, conductivity, temperature and nitrate were analyzed and measured in the field using the appropriate field test kits and equipment. All EPA-approved sampling protocols were observed and a chain of custody was maintained on all samples.

## **APPENDIX 2**

### **Field Notes**

## **APPENDIX 3**

### **Analytical Laboratory Reports**